



Data sheet

Product data

Product description	HELIX V205-1/16	5/E/S/400-50
Hydraulic data	-	
Minimum efficiency inde	ex (MEI)	≥0.7
Maximum inlet pressure	e p inl	10 bar

Maximum inlet pressure <i>p inl</i>	10 bar
Maximum operating pressure PN	16 bar
Discharge port	G 1
Min. fluid temperature T_{\min}	-30 °C
Max. fluid temperature $T_{\rm max}$	120 °C
Min. ambient temperature T_{\min}	-15 °C

Max. ambient temperature $T_{\rm max}$

Motor data

Mains connection	3~400 V, 50 Hz
Voltage tolerance	±10 %
Rated power P ₂	0.55 kW
Motor efficiency class	IE2
Rated current $I_{\rm N}$	1.32 A
Rated speed <i>n</i>	2900 1/min
Power factor $cos \ arphi_{100}$	0.85
Activation type	Direct On Line (DOL)
Motor efficiency 50% $\eta_{ m M}$ 50%	72.8 %
Motor efficiency 75% $\eta_{\rm M}$ 75%	76.7 %
Motor efficiency 100% $\eta_{\rm M}$ 100%	77.2 %
Insulation class	F
Protection class motor	IP55

Materials

50 °C

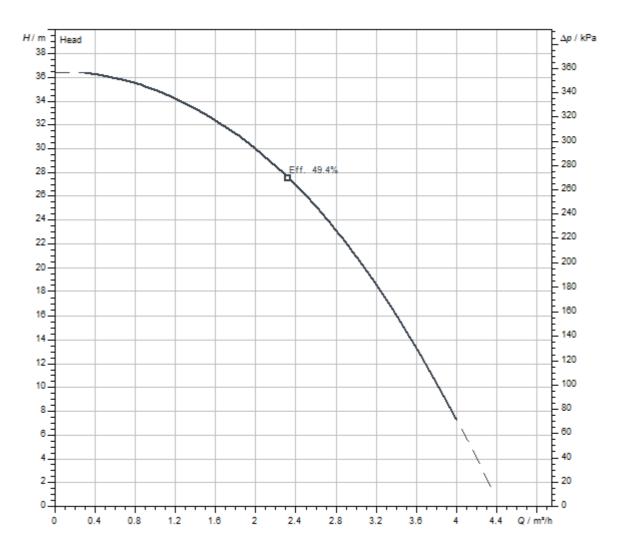
Pump housing	Stainless steel
Impeller	Stainless steel
Shaft	Stainless steel
Mechanical seal	BQ1EGG
Gasket material	EPDM

Installation dimensions

Pipe connection on the suction side <i>DNs</i>	G 1
Pipe connection on the discharge side <i>DNd</i>	G 1



Pump curves

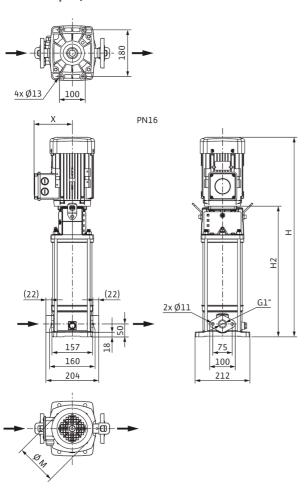


Fluid media	Water 100 %
Fluid temperature <i>T</i>	20.00 °C
speed at duty point <i>n hydr. @ OP</i>	2,954 1/min



Dimensions and dimensions drawings

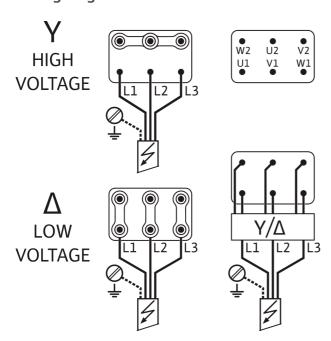
Helix V 2/V4, PN 16



Dimensions H	609 mm
Dimensions H1	128 mm
Dimensions L1	102 mm
Dimensions X	119 mm
Dimensions Ø q	138 mm
Difficiations by g	136 111111
Pipe connection on the suction side <i>DNs</i>	G 1



Wiring diagram



Ordering information

Product data

Brand	Wilo
Product description	HELIX V205-1/16/E/S/400-50
Article number	4201343 🔼
EAN number	4048482592152
Colour	green/silver
Minimum order quantity	1
Date of sales availability	2015-09-01

Packaging

Packaging type	Cardboard box
Packaging property	Transport packaging
Pieces per pallet	1
Number per layer	1

Dimension, weight

Length with packaging	800 mm
Length <i>L</i>	223 mm
Height with packaging	370 mm
Height <i>H</i>	609 mm
Width with packaging	400 mm
Width W	212 mm
Gross weight, approx. <i>m</i>	22.9 kg
Net weight, approx. <i>m</i>	19.4 kg



Tender text

Highly efficient high-pressure multistage centrifugal pump in vertical design with in-line connections.

The non self-priming high-pressure multistage centrifugal pump has a compact overall design and is particularly efficient and easy to maintain. The pump shaft and the motor shaft of the IEC standard motor are connected by means of a clamp coupling.

A separate lantern roller bearing ensures optimum admission of axial thrusts. Intermediate bearings in the hydraulics and corrosion-resistant shaft due to stainless steel sleeve ensure a long service life. Special, permanently attached lifting eyes enable easy pump installation.

The pump is suitable for water supply, water distribution and pressure boosting, industrial recirculation systems, process water and closed cooling circuits. It can also be used in fire extinguishing systems, washing systems as well as for irrigation.

Special features/product advantages

- > Efficiency-optimised, laser-welded 2D/3D hydraulics, flow and degassing optimised
- > Corrosion-resistant impellers, guide vanes and stage housings
- > Flow and NPSH-optimised pump housing
- Maintenance-friendly design with particularly robust coupling guard
- Drinking water approval for pumps with parts that come in contact with the fluid made of stainless steel (EPDM version)

Scope of delivery

- > Wilo-Helix V high-pressure multistage centrifugal pump
- > Installation and operating instructions
- > PN16 version with oval flanges: Stainless steel counter flanges with the corresponding screws, nuts and gaskets

Design notes

- > Motor protection for 3-phase motor is to be provided on request or onsite
- > Single-phase AC motor equipped with built-in thermal motor protection and capacitor
- > In its standard position, the terminal box is aligned with the suction flange, but this can be changed if necessary
- > The Wilo-Helix V is equipped with a user-friendly mechanical seal in a cartridge design and standard gasket for easy maintenance
- > The spacer coupling (from ≥ 7.5 kW) allows the mechanical seal to be replaced without removing the motor
- > The flexible lantern design, which is available in two alignments, enables direct access to the mechanical seal
- > For pump versions PN16, PN25 and Pmax = 30 bar, round counter flanges in cast iron or stainless steel, screws, nuts and gaskets are available as accessories
- > Bypass sets are available as accessories
- The Wilo-Helix V(F) VdS certified version upon request

Operating Data

Product data

Min. fluid temperature T_{\min}	-30 °C
Max. fluid temperature $T_{\rm max}$	120 °C
Max. ambient temperature $T_{\rm max}$	50 °C
Maximum operating pressure <i>PN</i>	16 bar
Maximum inlet pressure <i>p inl</i>	10 bar
Minimum efficiency index (MEI)	≥0.7



Motor data

Mains connection	3~400 V, 50 Hz
Voltage tolerance	±10 %
Rated power P ₂	0.55 kW
Motor efficiency class	IE2
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Insulation class	F
Protection class	IP55

Materials

Pump housing	Stainless steel
Impeller	Stainless steel
Shaft	Stainless steel
Shaft seal	BQ1EGG
Gasket material	EPDM

Installation dimensions

Pipe connection on the suction side <i>DNs</i>	
Pipe connection on the discharge side <i>DNd</i>	G 1

Ordering information

Brand	Wilo	
Product description	HELIX V205-1/16/E/S/400-50	
Net weight, approx. <i>m</i>	19.4 kg	
Article number	4201343	



Installation type

In inlet mode

Counter flange (stainless steel)	
Stainless steel counter flange (oval, 2 piece), PN16/DN25	4016168
Baseplate	
Base plate	4157154
hut-off valve	
Ball valve Rp 1	2663980
Non-return valve	
Non-return valve RV/S R 1	2660842
crewed connection for non-return valve	
Screwed connection for non-return valve DN 25	2660509
Level control with fault signal	
Float switch WAO	
Float switch WAO 65, 10 m cable	2006027
Float switch WAO 65, 20 m cable	2004429
Float switch WAO 65, 30 m cable	2004430
Float switch WAO 65, 5 m cable	50321159
Level control without fault signal	
Float switch WAO	
Float switch WAO 65, 10 m cable	2006027
Float switch WAO 65, 20 m cable	2004429
Float switch WAO 65, 30 m cable	2004430
Float switch WAO 65, 5 m cable	50321159

Wilo-EFC		

EFC0.55 3x380-480V 50/60Hz IP55	2193430
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Sensor kit

Sensor kit 250188	886	
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Electrical accessories

Pump control

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EFC0.55 3x380-480V 50/60Hz IP55	2193430
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Pump control/accessories

Low-water cut-out switchgear kit for domestic water systems

low-water cut-out switchgear kit WMS G 1¼	4204510
low-water cut-out switchgear kit WMS G2	4204512

Output filter EFC (150-500 m cable length)

2.4 A sin IP54 Wilo-EFC filter	6084559
2.5 A sin IP00 Wilo-EFC filter	6084574
2.5 A sin IP20 Wilo-EFC filter	6084900

Pressure control

Pressure sensor for systems

Pressure sensor, 0 - 6 bar	2550660
Pressure sensor, 0 - 10 bar	2550661
Pressure sensor, 0 - 16 bar	2550662
Pressure sensor, 0 - 25 bar	2550663
Pressure sensor, 0 - 40 bar	2550664

Sensor kit

Sensor kit	2501886	
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Level control

Float switch WA

Float switch WA65 with 5 m cable	503211390
Float switch WA65 with 10 m cable	503211893
Float switch WA65 with 20 m cable	2004431
Float switch WA65 with 30 m cable	2004432
Float switch WA KR1 S with 5 m cable	6082806
Float switch WA KR1 S with 10 m cable	6082807

Float switch WAO

Float switch WAO 65, 5 m cable	503211595
	505211555



Float switch WAO 65, 10 m cable	2006027	
Float switch WAO 65, 20 m cable	2004429	
Float switch WAO 65, 30 m cable	2004430	
Motor protection		
PTC thermistor tripping unit		
PTC thermistor tripping unit	509275993	
Surcharge for thermistor sensor (high-pressure centrifugal pumps)		
Surcharge for thermistor sensor (high-pressure centrifugal pumps)	HDK_KLF	



Services

With Wilo as your partner, you can not only be sure of choosing high-quality product solutions, but also of benefiting from a comprehensive, worry-free package of well thought-out services. We collaborate to develop a service concept tailored to your individual needs; with our expertise and personal consultancy, we make sure that the operation of your systems is as energy-efficient, reliable and economical as possible. All the while our competent Wilo service technicians are ready to assist you with fast, reliable and on-time support.

Recommended services

Maintenance BASIC Booster Set 1-2 pumps	2160453
Maintenance COMFORT Booster Set 1-2 pumps	2160468
Maintenance PREMIUM Booster Set 1-2 pumps	2160483
Commissioning Booster Set 1-2 pumps	2216414

More suitable services

Wilo-Live Assistant Service	2216415
Extended Warranty Booster Set 1-2 pumps	2216416
Supervision Booster Set 1-2 pumps	2216412
Installation Booster Set 1-2 pumps	2216413
System Optimisation Booster Set 1-2 pump	2216410
Energy Solutions Booster Set 1-2 pumps	2216411
Repair Booster Set 1-2 pumps	2216417